

Title (en)

METAL NANOWIRES WITH AN OXIDE SHEATH AND PRODUCTION METHOD FOR SAME

Title (de)

METALLISCHE NANODRÄHTE MIT EINER HÜLLE AUS OXID UND HERSTELLUNGSVERFAHREN DERSELBEN

Title (fr)

NANOFILS MÉTALLIQUES DOTÉS D'UNE GAINÉ EN OXYDE ET PROCÉDÉ DE FABRICATION DE CEUX-CI

Publication

EP 1996753 A1 20081203 (DE)

Application

EP 07817995 A 20070322

Priority

- EP 2007002564 W 20070322
- DE 102006013484 A 20060323

Abstract (en)

[origin: DE102006013484A1] Unidimensional composite structure comprises at least one nano strand comprising a metal core that is coated with a metal oxide, or at least one branched structure comprising the nano strand. An independent claim is included for a method for manufacturing unidimensional composite structure comprising thermolytic decomposition of at least one metal organic compound of formula EI(OR)H_2 at greater than 400 [deg]C. EI : Al, Ga (both preferred), In or Tl; and R : aliphatic or alicyclic hydrocarbon.

IPC 8 full level

C04B 35/622 (2006.01); **B22F 1/16** (2022.01); **D01F 8/18** (2006.01); **D01F 9/10** (2006.01)

CPC (source: EP US)

B22F 1/0547 (2022.01 - EP US); **B22F 1/0553** (2022.01 - EP US); **B22F 1/16** (2022.01 - EP US); **B22F 9/30** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C23C 16/20** (2013.01 - EP US); **C23C 16/403** (2013.01 - EP US); **D01F 8/18** (2013.01 - EP US); **D01F 9/10** (2013.01 - EP US); **H01L 29/0669** (2013.01 - EP US); **Y10S 977/891** (2013.01 - EP US); **Y10T 428/249924** (2015.04 - EP US); **Y10T 428/2933** (2015.01 - EP US)

Citation (search report)

See references of WO 2008011920A1

Cited by

DE102017113758A1; WO2018233767A1

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